



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

March 3, 2021

Mr. John Grabnar
Site Vice President
Energy Harbor Nuclear Corp.
Beaver Valley Power Station
P.O. Box 4, Route 168
Shippingport, PA 15077

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION,
UNITS 1 AND 2 (REPORTS 05000334/2020006 AND 05000412/2020006)

Dear Mr. Grabnar:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Beaver Valley Power Station (Beaver Valley), Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2020 through December 31, 2020. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety. The baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Beaver Valley, Units 1 and 2, during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at Beaver Valley, Units 1 and 2.

The enclosed inspection plan lists the inspections scheduled through December 31, 2022. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). For inspections requiring extensive coordination with offsite

organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

Additionally, during this period the NRC will perform inspections per Temporary Instruction 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5205 with any questions you have regarding this letter.

Sincerely,

X /RA/

Signed by: Matthew R. Young
Matthew R. Young, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket Nos. 05000334 and 05000412
License Nos. DPR-66 and NPF-73

Enclosure:
As stated

cc w/ encl: Distribution via ListServ®

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION,
UNITS 1 AND 2 (REPORTS 05000334/2020006 AND 05000412/2020006)
DATED MARCH 3, 2021

DISTRIBUTION:

DLew, RA (R1ORAMAIL Resource)
 RLorson, DRA (R1ORAMAIL Resource)
 DCollins, DRP (R1DRPMAIL Resource)
 BPham, DRP (R1DRPMAIL Resource)
 PKrohn, DRS (R1DRSMAIL Resource)
 MFerdas, DRS (R1DRSMAIL Resource)
 MYoung, DRP
 LCline, DRP
 KChambliss, DRP
 GEatmon, DRP, SRI
 RRolph, DRP, RI
 NESch, DRP, AA
 MHaire, RI OEDO
 RidsNrrPMBeaverValley Resource
 RidsNrrDorLpl1 Resource
 ROPreports Resource
 DJackson, DRS
 MGray, DRS
 GDentel, DRS
 FBower, DRS
 DTiftt, RI, SLO
 DScrenci, RI, PAO
 NSheehan, RI, PAO
 RidsNrrDrolrab Resource
 ROPassessment Resource

DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/ROPAssessmentMeetings/Shared Documents/ROP-21 EOC Review/Branch 5/BV/RI 2020 Annual Assessment Letter-BV.docx>

ADAMS ACCESSION NUMBER: ML21061A086

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	LCline	MYoung			
DATE	3/2/21	3/3/21			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
FY21 Beaver Valley 1 Initial Examination						4
1	01/31/2021	02/06/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/28/2021	03/13/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
PI&R BIENNIAL - BV						4
1, 2	02/08/2021	02/12/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	02/22/2021	02/26/2021	IP 71152B	000747	Problem Identification and Resolution	
PI&R Sample - Werkheiser - Cyber Security Followup						2
1, 2	02/15/2021	02/19/2021	IP 71152	000748	Problem Identification and Resolution	
Rad Safety Inspection - In-Plant Airborne						1
1, 2	03/08/2021	03/12/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
Inservice Inspection - Unit 1 1R27						1
1	04/18/2021	05/01/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Rad Safety Inspection 71124.01						1
1, 2	04/19/2021	04/23/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
EP PROGRAM INSPECTION - BEAVER VALLEY						1
1, 2	06/07/2021	06/11/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	06/07/2021	06/11/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	06/07/2021	06/11/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	06/07/2021	06/11/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	06/07/2021	06/11/2021	IP 71151	001397	Performance Indicator Verification	
Rad Safety Inspection - ALARA						1
1, 2	07/08/2021	07/20/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	07/12/2021	07/16/2021	IP 71151	000746	Performance Indicator Verification	
BV2 Requal Inspection with P/F Results						2
1	07/12/2021	07/16/2021	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1	07/12/2021	07/16/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
MATERIAL CONTROL AND ACCOUNTABILITY						1
1, 2	07/18/2021	07/24/2021	IP 71130.11	000742	Material Control and Accounting (MC&A)	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
Access Control, Protective Strategy, TSR, SPR						4
1, 2	08/02/2021	08/06/2021	IP 71130.02	000734	Access Control	
1, 2	08/02/2021	08/06/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	08/02/2021	08/06/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	08/02/2021	08/06/2021	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	08/02/2021	08/06/2021	IP 71151	001338	Performance Indicator Verification	
Fire Protection - Beaver Valley						3
1, 2	08/30/2021	09/03/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1, 2	09/13/2021	09/17/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
TI-194 Open Phase Condition Inspection - BV						2
1, 2	09/13/2021	09/17/2021	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
Inservice Inspection - Beaver Valley Unit 2						1
2	10/25/2021	11/12/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
DBAI - Power Operated Valve - Beaver Valley						3
1, 2	03/14/2022	04/01/2022	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - BV						6
1, 2	03/14/2022	03/18/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	04/04/2022	04/08/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
FY22 BV2 Initial Operator Licensing Exam						4
2	03/20/2022	03/25/2022	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	04/17/2022	04/29/2022	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
Triennial Heat Sink - Beaver Valley						1
1, 2	05/09/2022	05/13/2022	IP 71111.07T	000700	Heat Sink Performance	
EP EXERCISE INSPECTION - BEAVER VALLEY						4
1, 2	06/06/2022	06/10/2022	IP 71114.07	000722	Exercise Evaluation - Hostile Action (HA) Event	
1, 2	06/06/2022	06/10/2022	IP 71151	001397	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
BV1 Requal Inspection with P/F Results						2
1	06/20/2022	06/24/2022	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1	06/20/2022	06/24/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
RP REMP 71124.07						1
1, 2	07/11/2022	07/15/2022	IP 71124.07	000731	Radiological Environmental Monitoring Program	
50.59 Inspection - Beaver Valley						3
1, 2	07/17/2022	07/23/2022	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
ISI Inspection - Beaver Valley Unit 1 1R28						1
1	10/17/2022	10/28/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Access Auth, Access Control, FFD, SPR, PI-BV						3
1, 2	12/05/2022	12/09/2022	IP 71130.01	000733	Access Authorization	
1, 2	12/05/2022	12/09/2022	IP 71130.02	000734	Access Control	
1, 2	12/05/2022	12/09/2022	IP 71130.08	000740	Fitness For Duty Program	
1, 2	12/05/2022	12/09/2022	IP 71130.09	001656	Security Plan Changes	
1, 2	12/05/2022	12/09/2022	IP 71151	001338	Performance Indicator Verification	